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Balancing Body, Mind and Spirit with Pure Essential Oils

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## Pinon Pine

*Pinus edulis*

United States

Batch #US-59170

<b>Monoterpenes</b>	<b>79.51%</b>	<b>Aldehydes</b>	<b>0.07%</b>	<b>Sesquiterpenes</b>	<b>10.9%</b>
α pinene	55.23	nonanal	0.04	germacrene d	2.31
β phellandrene	7.06	hexanal	0.01	δ cadinene	1.88
β pinene	6.14	heptanal	0.01	α copaene	1.31
myrcene	5.20	phyllandral	0.01	α muurolene	0.78
δ3 carene	1.48			γ muurolene	0.72
camphene	1.16	<b>Esters</b>	<b>5.37%</b>	γ cadinene	0.70
terpinolene	0.76	ethyl octanoate isomer	2.14	longifolene	0.69
(Z) β ocimene	0.71	bornyl acetate	1.29	cis-caryophyllene	0.48
γ terpinene	0.28	ethyl octanoate	1.22	δ elemene	0.33
tricyclene	0.23	ethyl-(4E)-decanoate	0.27	(E) β farnesene	0.22
sabinene	0.22	methyl octanoate	0.23	β copaene	0.15
para-cymene	0.20	ethyl decanoate	0.13	trans-cadina-1(6),4-diene	0.14
α terpinene	0.18	ethyl3-methyl pentanoate	0.03	α zingiberene	0.12
α phellandrene	0.16	ethyl (4E) octenoate	0.02	(E) muurola-35 diene	0.12
allo ocimene	0.12	ethyl heptanoate	0.02	β elemene	0.11
thuja-2,4(10)-diene	0.10	(E) pinocarvyl acetate	0.02	α cadinene	0.10
α thujene	0.10			β cadinene	0.10
(E) β ocimene	0.09	<b>Ethers</b>	<b>0.52%</b>	β gurjunene	0.1
para-cymenene	0.09	methyl thymol	0.51	allo-aromadendrene	0.08
		1,4 cineole	0.01	zonarene	0.08
<b>Monoterpenols</b>	<b>1.4%</b>	<b>Ketones</b>	<b>0</b>	(Z) muurola-4(14),5 diene	0.08
α terpineol	0.69	verbenone	0.05	trans-cadina-1,4-diene	0.07
terpinen-4-ol	0.26	pinocamphone	0.04	(E,E) α farnesene	0.05
trans-pinocarveol	0.18	camphor	0.03	α humulene	0.05
para menth-1,5-dien-8-	0.17			β selinene	0.04
fenchol	0.05	<b>Sesquiterpenols</b>	<b>0.2%</b>	longicyclene	0.03
camphene hydrate	0.02	α cadinol	0.07	α calacorene	0.02
linalool	0.02	τ muurolol	0.06	β cubebene	0.02
para-cymen-8-ol	0.01	τ cadinol	0.05	(Z) muurola-3,5 diene	0.02
		1-epi-cubenol	0.02	<b>Other</b>	<b>0.65%</b>
				Unknown	0.62
				1-dodecanol	0.02
				octane	0.01

Raw Material: needles twigs

Production Method: Steam distillation

Date of Analysis: 5/3/2021

Client



Source



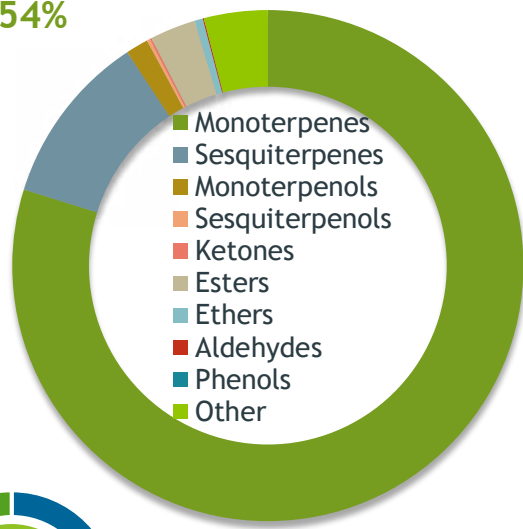
Pinon Pine (*Pinus edulis*)  
US-59170

Sample

Pinon Pine (*Pinus edulis*)  
Batch #:..... US-59170  
Type:..... Essential Oil  
CAS Number:... N/A  
**Nature's Gift**

**Monoterpenes**

79.54%



Client



Website



Primary

**55.26%** | alpha-Pinene  
**7.06%** | beta-Phellandrene  
**6.14%** | beta-Pinene



**Percentage Identified**

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Pinon Pine (*Pinus edulis*)

Internal Number: | EVS-4349



**Essential Validation Services**

747 SW 2nd Ave IMB 12 Suite 306  
Gainesville, FL 32601

317.361.5044 | <https://essentialvalidationservices.com/>

*Adam Christen*

Monoterpenes	79.54%	79.54%
Sesquiterpenes	10	10.88%
Monoterpenols		1.42%
Sesquiterpenols		0.20%
Ketones		0.12%
Esters		2.89%
Ethers		0.52%
Aldehydes		0.07%
Phenols		0.00%
Other		4.02%

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Client



Source

Pinon Pine (*Pinus edulis*)

US-59170

Total Percentage		95.99%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.18	0.01%	Octane	Alkane
2	4.22	0.01%	Hexanal	Aliphatic Aldehyde
3	7.09	0.01%	Heptanal	Aliphatic Aldehyde
4	7.76	0.23%	Tricyclene	Monoterpene
5	7.94	0.10%	alpha-Thujene	Monoterpene
6	8.25	55.26%	alpha-Pinene	Monoterpene
7	8.78	1.16%	Camphene	Monoterpene
8	8.95	0.10%	Thuja-2,4(10)-diene	Monoterpene
9	9.50	0.03%	6.34 Ethyl 3-methyl pentanoate	0.00
10	9.73	0.22%	Sabinene	Monoterpene
11	9.90	6.14%	beta-Pinene	Monoterpene
12	10.48	5.20%	Myrcene	Monoterpene
13	11.12	0.16%	alpha-Phellandrene	Monoterpene
14	11.22	1.48%	delta-3-Carene	Monoterpene
15	11.51	0.01%	1,4-Cineole	Monoterpene Ether
16	11.59	0.18%	alpha-Terpinene	Monoterpene
17	11.92	0.20%	para-Cymene	Monoterpene
18	12.17	7.06%	beta-Phellandrene	Monoterpene
19	12.51	0.71%	(Z)-beta-Ocimene	Monoterpene
20	12.97	0.09%	(E)-beta-Ocimene	Monoterpene
21	13.44	0.28%	gamma-Terpinene	Monoterpene
22	14.66	0.76%	Terpinolene	Monoterpene
23	14.79	0.62%	UK Pine	
24	14.86	0.09%	para-Cymenene	Monoterpene
25	15.32	0.02%	Ethyl heptanoate	Monoterpene Ester
26	15.38	0.02%	Linalool	Monoterpenol
27	15.61	0.04%	Nonanal	Aliphatic Aldehyde
28	16.16	0.05%	Fenchol	Monoterpenol
29	16.51	0.23%	Methyl octanoate	Aliphatic Ester
30	16.68	0.12%	Alloocimene	Monoterpene
31	17.11	0.18%	trans-Pinocarveol	Monoterpenol
32	17.38	0.03%	Camphor	Monoterpene Ketone
33	17.75	0.02%	Camphene hydrate	Monoterpenol
34	18.02	0.04%	Pinocamphone	Monoterpene Ketone
35	18.18	2.14%	Ethyl octanoate isomer	

Client



Source



Pinon Pine (*Pinus edulis*)  
US-59170

Number	RT	Area %	Compound Name	Chemical Family
36	18.592	0.17%	para-Mentha-1,5-dien-8-ol	
37	18.99	0.26%	Terpinen-4-ol	Monoterpenol
38	19.32	0.01%	para-Cymen-8-ol	Monoterpenol
39	19.45	0.02%	15.12 Ethyl-(4E)-octenoate	0.00
40	19.67	0.69%	alpha-Terpineol	Monoterpenol
41	19.88	1.22%	Ethyl octanoate	Monoterpene Ester
42	20.17	0.05%	Verbenone	Monoterpene Ketone
43	21.31	0.51%	Methyl thymol	Monoterpene Ether
44	23.33	0.01%	Phellandral	Monoterpene Aldehyde
45	23.70	1.29%	Bornyl acetate	Monoterpene Ester
46	24.22	0.02%	20.11 Pinocarvyl acetate<trans->	0.00
47	26.46	0.33%	delta-Elemene	Sesquiterpene
48	27.50	0.03%	Longicyclene	Sesquiterpene
49	27.66	1.31%	alpha-Copaene	Sesquiterpene
50	27.93	0.27%	23.75 Ethyl-(4E)-decenoate	0.00
51	28.19	0.02%	beta-Cubebene	Sesquiterpene
52	28.28	0.11%	beta-Elemene	Sesquiterpene
53	28.65	0.13%	Ethyl decanoate	Monoterpene Ester
54	28.97	0.69%	Longifolene	Sesquiterpene
55	29.43	0.48%	cis-Caryophyllene	Sesquiterpene
56	29.89	0.15%	beta-Copaene	Sesquiterpene
57	30.57	0.02%	cis-Muuroala-3,5-diene	Sesquiterpene
58	30.68	0.12%	trans-Muuroala-3,5-diene	Sesquiterpene
59	30.91	0.05%	alpha-Humulene	Sesquiterpene
60	31.01	0.22%	(E)-beta-Farnesene	Sesquiterpene
61	31.20	0.10%	beta-Gurjunene	Sesquiterpene
62	31.43	0.08%	allo-Aromadendrene	Sesquiterpene
63	31.65	0.14%	trans-Cadina-1(6),4-diene	Sesquiterpene
64	31.78	0.72%	gamma-Muurolene	Sesquiterpene
65	31.99	2.31%	Germacrene D	Sesquiterpene
66	32.17	0.02%	1-Dodecanol	Monoterpenol
67	32.27	0.04%	beta-Selinene	Sesquiterpene
68	32.39	0.08%	cis-Muuroala-4(14),5-diene	Sesquiterpene
69	32.56	0.10%	alpha-Zingiberene	Sesquiterpene
70	32.75	0.78%	alpha-Muurolene	Sesquiterpene
71	32.92	0.10%	beta-Cadinene	Sesquiterpene

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- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method  
 - This report may not be published without the consent of Essential Validation Services.  
 - Chromatograph image may be requested  
 - This report is valid for 1 year from the analyzed date

Client



Source



Pinon Pine (*Pinus edulis*)  
US-59170

72	33.09	0.05%	(E,E)-alpha-Farnesene	Sesquiterpene
73	33.29	0.70%	gamma-Cadinene	Sesquiterpene
74	33.55	1.88%	delta-Cadinene	Sesquiterpene
75	33.69	0.08%	Zonarene	Sesquiterpene
76	34.06	0.07%	trans-Cadina-1,4-diene	Sesquiterpene
77	34.23	0.10%	alpha-Cadinene	Sesquiterpene
78	34.36	0.02%	alpha-Calacorene	Sesquiterpene
79	37.69	0.02%	1-epi-Cubenol	Sesquiterpenol
80	38.23	0.05%	T-Cadinol	Sesquiterpenol
81	38.30	0.06%	T-Muurolol	Sesquiterpenol
82	38.71	0.07%	alpha-Cadinol	Sesquiterpenol

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